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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/556,659	10/10/2006	Shaun Burchell	1-17186 8569	
1678 7590 07/09/2008 MARSHALL & MELHORN, LLC			EXAMINER	
FOUR SEAGA	TE - EIGHTĤ FLOOI		SCHILLER, ALINA	
TOLEDO, OH 43604			ART UNIT	PAPER NUMBER
			3671	
			NOTIFICATION DATE	DELIVERY MODE
			07/09/2008	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

Office Action Summary		Application No.	Applicant(s)				
		10/556,659	BURCHELL, SHAUN				
		Examiner	Art Unit				
		ALINA SCHILLER	3671				
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) 又	Responsive to communication(s) filed on 17 Ma	arch 2008					
-		action is non-final.					
· · · · · ·	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
· , _	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims						
4)🖂	Claim(s) <u>17-19,21-30 and 32</u> is/are pending in	the application.					
·	4a) Of the above claim(s) is/are withdrawn from consideration.						
	5) Claim(s) is/are allowed.						
6)🖂	6)⊠ Claim(s) <u>17-19,21-30 and 32</u> is/are rejected.						
	Claim(s) is/are objected to.						
8)□	Claim(s) are subject to restriction and/or	election requirement.					
Application Papers							
9)	The specification is objected to by the Examine	r.					
•	10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
,—	Applicant may not request that any objection to the						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority ι	ınder 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
2) Notic 3) Inforr	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite				

DETAILED ACTION

Claim Rejections - 35 USC § 103

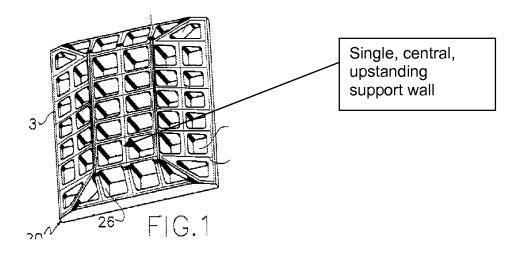
- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 17-19, 21-25 and 27-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Attar 6,821,051 in view of Fleury et al 6,062,766, Held et al 6,050,742, and Chambers et al 5,895,170 or Figlewicz et al 6,478,506.

Regarding claim 17, Attar discloses a reflective road marker (as seen in Fig. 1) comprising a generally convex, rigid shell (10; col. 1, lines 23-25; 36; col. 2, lines 20-22; 34-42) having a lower edge (as seen in Fig. 1) and a rigid base (20; col. 3, line 45; col. 4, lines 30-32) fixed to the shell (col. 3, lines 66-67; col. 4, lines 1; 5; 41; 52-55; col. 5, lines 36-38) to form, in combination with the shell, a rigid housing which defines an internal chamber (24), the shell and base being of hard molded plastics material (col. 1, lines 23-25; col. 2, lines 20-22, col. 4, lines 31-32, col. 5, lines 21-30), the shell including at least one molded plastics reflector (12), forming an integral part of the shell (col. 4, lines 63-67; col. 1, lines 23-25), the shell also including a pair of oppositely inclined, externally planar surfaces (16), which extend downwardly in directions towards the lower edge of the shell such that the shell has, externally, substantially a gable shape in cross-

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section (as seen in Fig. 1), the base including a single, central, upstanding support wall (as seen in the modified picture below taken from Fig. 1). The examiner notes that the phrase "to reflect light cast onto the marker in use" is for intended use. A recitation of the intended use of the claimed invention must result in a structural difference between the claimed invention and the prior art in order to patentably distinguish the claimed invention from the prior art. If the prior art structure is capable of performing the intended use, then it meets the claim. It is the examiner position that Attar's reflective road marker is capable of meeting the limitation in claim 17, which is an inherent characteristic of road markers.



However, Attar fails to disclose that the reflective road marker is embedded into the road surface; the lower edge of the shell is round; the base has a round periphery fixed in sealed manner to the lower edge of the shell to form, in combination with the shell, a housing which defines a sealed, internal chamber; the housing is round in plan view; the shell includes a raised, central, diametrically extending rib and the pair of oppositely inclined, externally planar

surfaces are recessed with respect to the rib and extend downwardly from the rib in directions towards the lower edge of the shell such that the shell has, externally, substantially a gable shape in a cross-section transverse to the rib; and the support wall is diametrically extending and located beneath the central rib of the shell in order to limit downward deflection of the rib under vertical loading applied to the marker.

Fleury teaches that it is well known in the art to have an embedded-type reflective road marker (10, Fig. 1), which is easy to install and able to survive snowplowing operations without damage (col. 1, lines 11-12), having the lower edge of the shell round (as clearly seen in Fig. 4) and with the base having a round periphery (Fig. 4), with the housing being round in plan view (Fig. 5). It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the reflective road marker of Attar to be embedded into the road surface and have the shape as described above, as taught by Fleury, in order to lower its profile, improve abrasion resistance, survive snowplowing operations without damage, and as an alternate design for a road marker well known in the art.

Held teaches that it is well known in the art to have a pavement marker wherein the round periphery of the base (14, Fig. 1) is fixed in sealed manner to the lower edge of the shell to form, in combination with the shell, a housing which defines a sealed, internal chamber (the periphery of the base being ultrasonically welded to the lower edge of the shell), in order to create the desired weather-tight seal (as seen in Fig. 1; col. 3, lines 14-18). Further, it would have been obvious

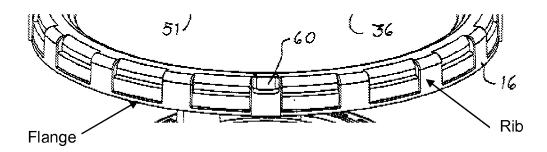
to one having ordinary skill in the art at the time the invention was made to modify the road marker of the combination above to have the round periphery of the base fixed in sealed manner to the lower edge of the shell to form, in combination with the shell, a housing which defines a sealed, internal chamber, similar to that of Held, in order to create the desired weather-tight seal, a taught by Held.

Chambers or Figlewicz teaches that it is well known in the art to have a road marker with the shell including a raised, central, diametrically extending rib and a pair of oppositely inclined, externally planar surfaces which are recessed with respect to the rib and extend downwardly from the rib in directions towards the lower edge of the shell such that the shell has, externally, substantially a gable shape in a cross-section transverse to the rib. Further, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the road marker of the combination above to have the design and structure taught by Chambers or Figlewicz, as an alternate design and structure for a road marker well known in the art.

Further, the combination above results in the support wall being diametrically extending and located beneath the central rib of the shell, which is considered to be capable of limiting downward deflection of the rib under vertical loading applied to the marker.

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Regarding claim 18, Attar discloses a device as previously set forth, but fails to disclose that the lower edge of the shell includes a plurality of circumferentially spaced, externally projecting ribs to fix the marker against rotation when embedded in a road surface in use. Fleury teaches that is well known to provide the lower edge of the shell with a plurality of circumferentially spaced, externally projecting ribs (as seen in the modified picture below taken from Fig. 4), to assist in proper installation of the marker in a recess (Abstract). It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the reflective road marker of Attar to have an the lower edge of the shell including a plurality of circumferentially spaced, externally projecting ribs, similar to those of Fleury, in order to assist in proper installation of the marker and engage the pavement around the borehole where the road marker is embedded, as taught by Fleury.



The examiner notes that the phrase "to fix the marker against rotation when embedded in a road surface in use" is for intended use. A recitation of the intended use of the claimed invention must result in a structural difference

between the claimed invention and the prior art in order to patentably distinguish the claimed invention from the prior art. If the prior art structure is capable of performing the intended use, then it meets the claim. It is the examiner position that the reflective road marker of Attar as modified by Fleury is capable of meeting the limitation in claim 18.

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Regarding claim 19, Attar discloses a device as previously set forth, but fails to disclose that the lower edge of the shell carries an outwardly projecting flange to fix the marker against being pulled out of the road surface when the marker is embedded in the road surface. Fleury teaches that the lower edge of the shell carries an outwardly projecting flange (as seen in the modified picture above of Fleury), in order to better anchor the device into the road surface. It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the reflective road marker of Attar to have a flange on the lower edge of the shell, as taught by Fleury, in order to better anchor the device into the road surface.

The examiner notes that the phrase "to fix the marker against being pulled out of the road surface when the marker is embedded in the road surface" is for intended use. A recitation of the intended use of the claimed invention must result in a structural difference between the claimed invention and the prior art in order to patentably distinguish the claimed invention from the prior art. If the prior art structure is capable of performing the intended use, then it meets the claim. It is

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the examiner position that the reflective road marker of Attar as modified by Fleury is capable of meeting the limitation in claim 19.

Regarding claim 21, Attar discloses that the shell includes two reflectors (12, Fig. 1) facing in generally opposite directions (as seen in Fig. 1).

Regarding claim 22, Attar discloses that the surfaces of the reflectors form the externally planar surfaces of the shell (as seen in Fig. 1).

Regarding claim 23, Attar discloses that the at least one reflector is molded in one piece with the remainder of the shell so as to form an integral part of the shell (col. 4, lines 63-67; col. 1, lines 23-25).

Regarding claim 24, Attar discloses that the shell is made of a light transmitting material (col. 5, lines 1-10).

Regarding claim 25, Attar discloses that is well known in the art to use transparent shells (col. 1, line 28), which is considered to meet the limitation of the shell having the same color, or being clear or translucent, throughout in claim 25.

Regarding claim 27, Attar discloses that the shell is molded about the at least one reflector so that the at least one reflector forms an integral part of the shell (col. 4, lines 63-67; col. 1, lines 23-25). The examiner notes that the phrase "at least one reflector is a premolded component and the remainder of the shell is molded about the at least one reflector so that the at least one reflector forms an integral part of the shell" is a process limitation. Claim 27 is considered to be a

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product - by process claim, and the examiner notes that it has been held that even though product – by process claims are limited by and defined by the process, determination of patentability is based on the product itself. Additionally, the patentability of a product does not depend on its method of production. If the product in the product – by process claim is the same as or obvious from a product of the prior art, the claim is unpatentable even though the prior product was made by a different process. *In Re Thorpe, 227 USPQ 964, 966 (Fed. Cir. 1985)* (see MPEP 2113).

Regarding claim 28, Attar discloses that the remainder of the shell aside from the reflectors is opaque (col. 5, lines 10-12).

Regarding claim 29, Attar discloses that at least one reflector is a corner cube prism reflector (col. 12-18; col. 4, lines27-29).

Regarding claim 30, Held discloses that the periphery of the base is ultrasonically welded to the lower edge of the shell (col. col. 3, lines 14-18).

Claim 26 is rejected under 35 U.S.C. 103(a) as being unpatentable over Attar 6,821,051 in view of Fleury et al 6,062,766, Held et al 6,050,7, and Chambers et al 5,895,170 or Figlewicz et al 6,478,506, as applied to claim 24 above, and further in view of Mecham 7,025,527.

The combination above discloses a road marker as previously described, but fails to disclose that different portions of the shell are of different color.

Mecham teaches that it is known in the art to have different portions of the shell (18) being of different color, such as red over one portion to indicate danger,

such as wrong direction, and another color over the other portion (Abstract, col. 2, lines 7-11; 55-62; col. 4, lines 25-28). It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the road marker of the combination above to have different portions of the shell of different colors, similar to those of Mecham, in order to warn drivers of danger, as taught by Mecham.

Claim 32 is rejected under 35 U.S.C. 103(a) as being unpatentable over Attar 6,821,051 in view of Fleury et al 6,062,766, Held et al 6,050,7, and Chambers et al 5,895,170 or Figlewicz et al 6,478,506, as applied to claim 17 above, and further in view of Jordan 7,018,131.

The combination above discloses a road marker as previously described, but fails to disclose that the internal chamber accommodates a light source, a solar panel or a light sensor. Jordan teaches a road marker, wherein the internal chamber accommodates a LED (24, Fig. 1; Abstract), to provide intelligent control for a variety of modes corresponding to diverse driving conditions (Abstract). It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the road marker of the combination above to accommodate a light source in the internal chamber, similar to that of Jordan, in order to provide intelligent control for a variety of modes corresponding to diverse driving conditions, as taught by Jordan.

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Response to Arguments

2. Applicant's arguments with respect to claims 17 have been considered but are most in view of the new ground(s) of rejection.

3. Applicant's arguments filed on 3/17/2008 have been fully considered but they are not persuasive.

In response to Applicant's argument (claim 32) that Attar's device does not have available space to accommodate a light source, it has been described in the first office action that the combination of references results in this limitation being met.

4. In response to applicant's arguments against the references individually, one cannot show nonobviousness by attacking references individually where the rejections are based on combinations of references. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); *In re Merck & Co.*, 800 F.2d 1091, 231 USPQ 375 (Fed. Cir. 1986).

Conclusion

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory

action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ALINA SCHILLER whose telephone number is (571)270-3088. The examiner can normally be reached on Mon-Fri, 7:30AM-4:00PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas B. Will can be reached on (571)272-6998. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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/Thomas B Will/ Supervisory Patent Examiner Art Unit 3671

AS 07/02/2008